



2250 E. Tropicana Ave Phone: (866) 977-8833
 Suite 19-600 Fax: (800) 804-0182
 Las Vegas, NV 89919 Email: sales@polytuffus.com
 Web: www.polytuffus.com

Terra-Shield WC

*Single Component, Water Curable,
 Bitumen Modified, Liquid for Plywood
 and Concrete Surfaces*

DESCRIPTION

Terra-Shield™ WC is a single component, water curable liquid applied, bitumen modified, coal tar free, urethane polyurea waterproofing membrane for vertical and horizontal surfaces.

FEATURES

- ❖ Economical
- ❖ Resistant to Bacterial Growth
- ❖ Not For Use in SCAQMD Areas
- ❖ Meets the Criteria of ASTM C-836 & E-96
- ❖ Non-Gassing
- ❖ Fast Curing
- ❖ Applied at any required thickness
- ❖ Highly Flexible over extreme temperatures
- ❖ Low Odor
- ❖ Meets SCAQMD VOC Requirements
- ❖ Controlled Cure
- ❖ Labor Saving
- ❖ User Friendly
- ❖ Fast Recoat Times
- ❖ No Heating or Kettles

TYPICAL USES

- ❖ Bridges
- ❖ Planters
- ❖ Between Slabs
- ❖ Terrazzo and Tile Floors
- ❖ Showers, Laundry, Kitchen Floors
- ❖ Under Malls, Plazas and Promenade Decks.
- ❖ Green Roof Waterproofing
- ❖ Breezeway Waterproofing
- ❖ Tunnels
- ❖ Basements
- ❖ Foundation Walls
- ❖ Bathrooms
- ❖ Balcony and

COLOR

Black

PACKAGING

5 gallon (18.9 liter) pail
 55 gallon drum, net fill 50 gallons (189 liters)

MIXING

One quart of water should be added to 5 gallons of Terra-Shield™ WC and should be thoroughly mixed using a mechanical mixer at slow speed to ensure a homogeneous material. Take care not to allow entrapment of air into the material.

JOINTS, CRACKS, AND FLASHING

Apply Terra-Shield™ WC over all primed joints and cracks. Bridge the joints and cracks with 3 inch (7.6 cm) Polyester Tape, pushing it into the sealant with a trowel. Over reinforcement tape apply a thin coat of Terra-Shield™ WC and smooth onto adjacent surface.

APPLICATION

Terra-Shield™ WC may be applied directly with a brush, squeegee, trowel or phenolic core roller. Apply Terra-Shield™ WC evenly over the primed surface.

Primer is optional on plywood and CMU.

CURING

For multiple coat applications, allow coating to cure for a minimum of 1 and a maximum of 48 hours (curing is a function of ambient temperature and humidity) before proceeding to subsequent coats. If more than 48 hours pass between coats the surface must be re-primed.

Terra-Shield™ WC is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in thickness of application. Limit single coat thickness to 30-40 wet mils.

TECHNICAL DATA, Terra-Shield™ WC Horizontal

Hardness, ASTM D-2240.....	45 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624.....	110 ± 10 pli
	21 ± 3.5 kNm
Tensile Strength, ASTM D-412	500 ± 50 psi
	3.45 ± 0.3 MPa
Ultimate Elongation, ASTM D-412	500 ± 50%
Specific Gravity.....	1.25
Total Solids by Weight, ASTM D-236.....	82 ± 2%
Total Solids by Volume, ASTM D-2697	73 ± 2%
Viscosity, at 80 °F (27 °C).....	4500±2000 cps
Service Temperature	-25°F to 200°F
	-31.7°C to 93.3°C
Meets the Criteria of ASTM C-836	
Meets the Criteria of ASTM E-96	

TECHNICAL DATA, Terra-Shield™ WC Vertical

Hardness, ASTM D-2240.....	45 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624.....	110 ± 10 pli
	21.3 ± 1.8 kNm
Tensile Strength, ASTM D-412	500 ± 50 psi
	3.45 ± 0.3 MPa
Ultimate Elongation, ASTM D-412	500 ± 50%
Specific Gravity.....	1.25
Total Solids by Weight, ASTM D-2369.....	82 ± 3%
Total Solids by Volume, ASTM D-2697	73 ± 3%
Viscosity, at 80 °F (27 °C).....	Pass
Service Temperature	-25°F to 200°F
	-31.7°C to 93.3°C

EQUIPMENT CLEANUP

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

STORAGE

Terra-Shield™ WC has a shelf life of six (6) months from date of manufacture in original, factory sealed containers.

LIMITATIONS

Surfaces must be dry, clean and free of foreign matter.

Not UV stable.

Cannot withstand direct wear or abrasion.

Containers that have been opened must be used as soon as possible.

Do not dilute with solvent under any circumstance.

WARNING

This product contains Aromatic Hydrocarbons, Isocyanates and Solvent.
